W

	Application No.	Applicant(s)	Applicant(s)	
Notice of Allowability	09/808,331	LIN, PHILIP J.		
	Examiner	Art Unit		
	Kevin C Kianni	2877	•	
The MAILING DATE of this communication a All claims being allowable, PROSECUTION ON THE MERITS herewith-(or-previously mailed), a Notice of Allowance (PTOL- NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.	85) or other appropriate communi	his application. If not included	d	
1. This communication is responsive to <u>2/5/04</u> .	7			
2. ☑ The allowed claim(s) is/are 41-44, 57-66 a	nd 76-80. dt			
3. The drawings filed on 25 July 2001 are accepted by the	•			
 4. ☐ Acknowledgment is made of a claim for foreign priority a) ☐ Ali b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 	under 35 U.S.C. § 119(a)-(d) or (
2. Certified copies of the priority documents ha	ave been received in Application N	No	y - 1	
 Copies of the certified copies of the priority 	documents have been received in	this national stage application	n from the	
international bureau (PCT Rule 17.2(a)).		or and a special of the special of t	ii iioiii ale	
* Certified copies not received:		•		
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g	william application.			
winding	ives reason(s) why the oath or de	claration is deficient.		
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") m	ust be submitted.			
(a) including changes required by the Notice of Draftspe	rson's Patent Drawing Review (F	PTO-948) attached		
i) in hereto or 2) it to Paper No./Mail Date				
(b) including changes required by the attached Examine Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the di	rawings in the front (not the ba	ck) of	
 DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT 		•	e the	
944304 an - 247 - V				
Attachment(s) Divining a series of References Cited (PTO-892)				
. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		al Patent Application (PTO-15	52)	
		ary (PTO-413),		
. Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date	08), 7. ☐ Examiner's Ame	ndment/Comment	٠.	
Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's State	ement of Reasons for Allowar	ice	
of Biological Material	9. Other			
	•	ь.		

Application/Control Number: 09/808,331

Art Unit: 2877

Reason for Allowance

- Acknowledgment made of applicant's cancellation of claims 1-40, 45-56 and 67 75 in a paper submitted on 2/05/04.
 - 1. Claims 41-44, 57-66 and 76-80 are allowed for the following reasons:

The instant application is deemed to be directed to a nonobvious improvement over the invention patented in Pat. No. 6,243,178.

Claim 41 is allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious where k² separate signal paths in each module couple each input line to a respective output line of each module in combination with the rest of the limitations of the base claim. Claims 42-44 and 57-62 depend to claim 41 and therefore they are also allowed

Claim 63 is allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious where each KxK module comprises: a body portion which includes a plurality of LxL signal coupling networks with L< K; K input ports coupled to the body portion; K output ports coupled to the body portion; and a plurality of signal paths, carried by the LxL signal coupling networks in combination with the rest of the limitations of the base claim. Claims 64-65 depend to claim 63 and therefore they are also allowed.

Claim 66 is allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious where N1 inputs comprise N1/K group groups of signal carriers coupled to a corresponding number of KxK modules; and where the plurality

Application/Control Number: 09/808,331

Art Unit: 2877

comprises (N1/K x N2/K) modules in combination with the rest of the limitations of the base claim.

Claim 76 is allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious KxK interconnect modules, K<N, each module having k² inputs coupled to k² outputs with each line coupled to only one output by a separate optical transmission fiber in combination with the rest of the limitations of the base claim. Claims 77-80 depend to claim 76 and therefore they are also allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2877

Contact Information

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to K. Cyrus Kianni whose telephone number is (571) 272-2417.

The examiner can normally be reached on Monday through Friday from 8:30 a.m. to 6:00 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font, can be reached at (571) 272-2415.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9306 (for formal communications intended for entry)

õr:

Hand delivered responses should be brought to Crystal Plaza 4, 2021 South Clark Place, Arlington, VA., Fourth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (703) 308-0956.

K. Cyrus Kianni Patent Examiner Group Art Unit 2877 Frank Font
Supervisory Patent Examiner
Group Art Unit 2877

May 4, 2004